

Activity Book

How to contact us:



State of California
Department of Transportation
111 Grand Avenue
Oakland, CA 94612

(510) 286-4444
24-Hour Road Conditions: 800-427-7623

www.dot.ca.gov/dist4

Prepared by Caltrans District 4 Office of Public/Legislative Affairs & Audio Visual Graphic Services

Special thanks to:

Lori Piccone-Mazzaferro - Graphic Designer III, Audio Visual Graphic Services/District 4
Anita Appiano - for the concept and her contributions, Office of Health, Safety & Training/District 4

Welcome to Caltrans, District 4

District 4 is a major piece of what Caltrans is all about. Caltrans, or the State of California Department of Transportation, is a State Agency whose primary function is building and maintaining the State's highway system. Although Caltrans services the entire state, District 4 has a sole responsibility for the Bay Area, which includes the counties of Sonoma, Solano, Napa, Marin, San Francisco, Contra Costa, Alameda, Santa Clara and San Mateo.

When you see construction work being done on the highways, or see our many highway maintenance workers in their distinctive orange vests repairing the roadways, or when you pay tolls while crossing our bridges, you may think that is all Caltrans is responsible for. However, what you actually see being done in your communities is only part of what Caltrans is all about. We hope this activity book will give you a better understanding of what our role is in servicing the highways and other transportation facilities.

Currently, there are over 3,500 District 4 employees working in 10 different divisions, all with a single goal of making our Bay Area highways a better and safer place to travel, for you and your families. We are providing you with this booklet as an interactive means of informing you about District 4 and all the people who

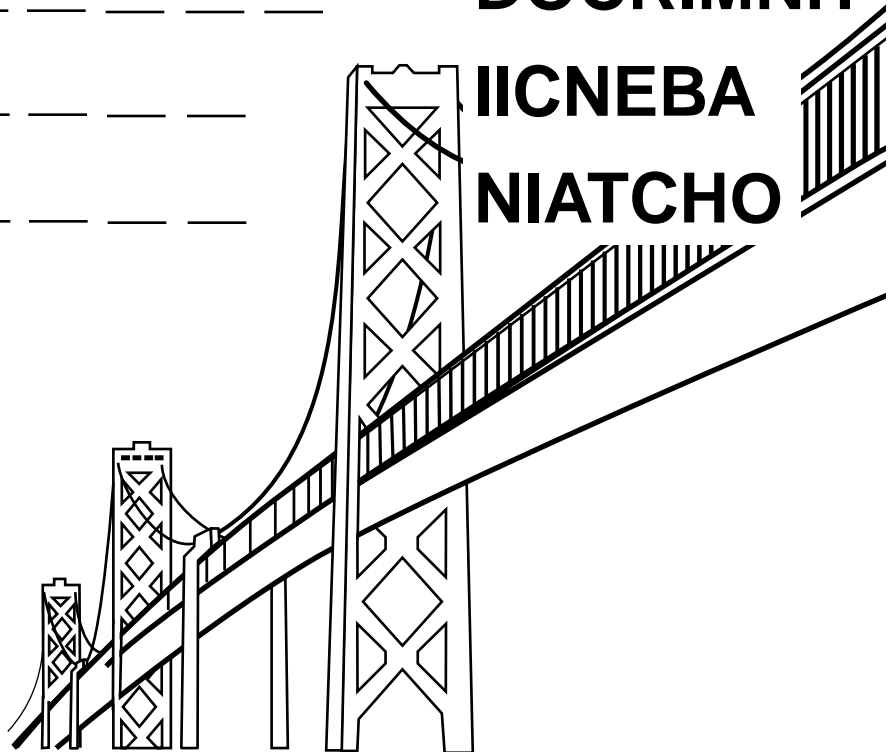
We hope you enjoy the book!

Scrambled Words

Seven state-owned toll
bridges in Northern California.

1. _ _ _ _ _ DGEBABYRI
2. _ _ _ _ _ NRTADOBUM
3. _ _ _ _ _ RQZNUCIEA
4. _ _ _ _ _ TOEAMANS
5. _ _ _ _ _ DOCRIMNH
6. _ _ _ _ _ IICNEBA
7. _ _ _ _ _ NIATCHO

Answers are located
on page 24.



Construction Words

Some words used in construction.

- | | |
|--------------|------------------|
| 1. _ _ _ _ _ | EIGREENN |
| 2. _ _ _ _ _ | ERUTOD |
| 3. _ _ _ _ _ | IAVGNP |
| 4. _ _ _ _ _ | INNEWIGD |
| 5. _ _ _ _ _ | MTNEEC |
| 6. _ _ _ _ _ | RAPGEDU |
| 7. _ _ _ _ _ | RNOTCEPSI |
| 8. _ _ _ _ _ | SUELROC |
| 9. _ _ _ _ _ | ZELROLDUB |

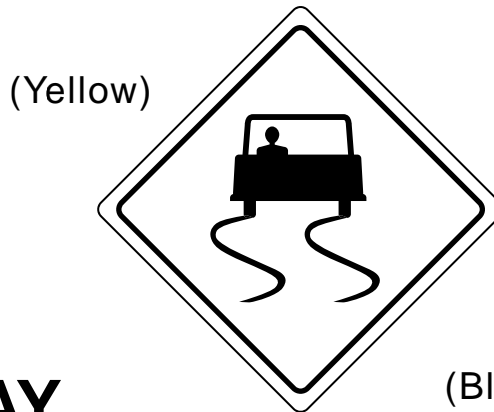


Answers are located
on page 24.

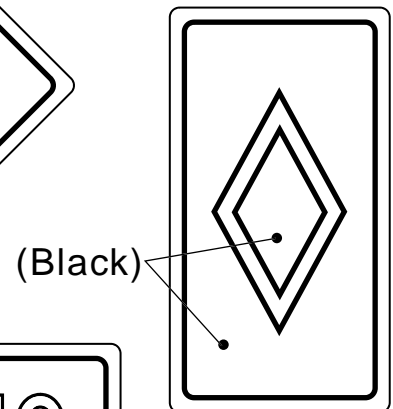
Highway Signs

These are some signs used on the California highways. Color the signs and match to the words.

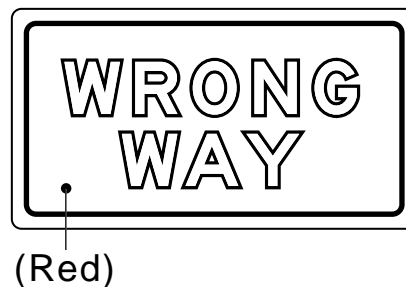
■ TURN



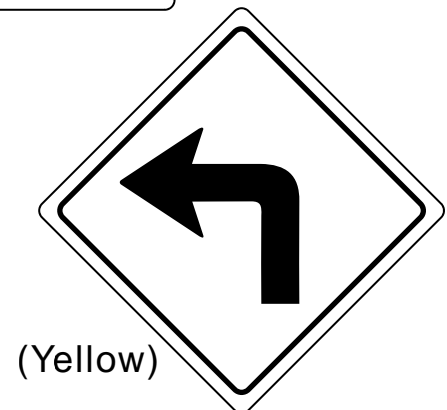
■ WRONG WAY



■ SLIPPERY
WHEN WET

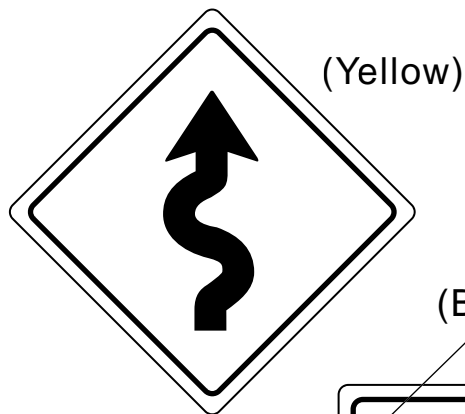


■ BUS/CARPOOL
LANE

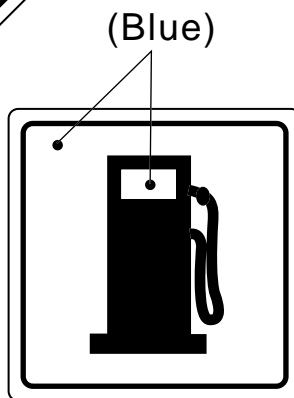


Some More Signs

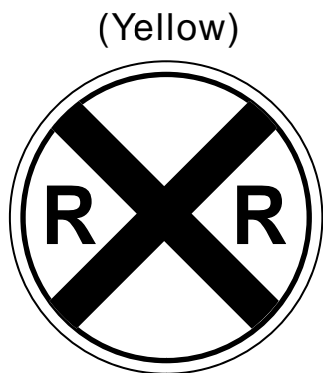
Color the signs and match to the words.



■ RAILROAD
ADVANCE
WARNING



■ FLAGPERSON
AHEAD



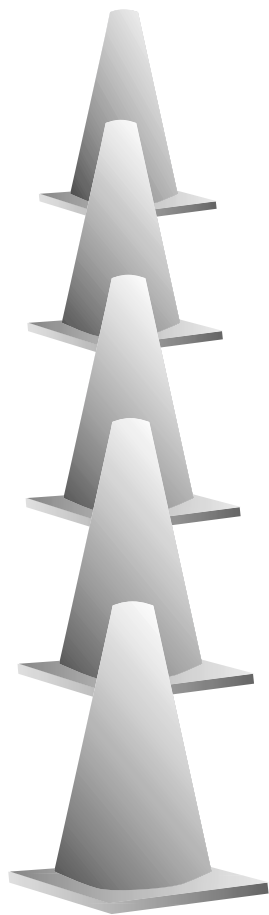
■ WINDING
ROAD



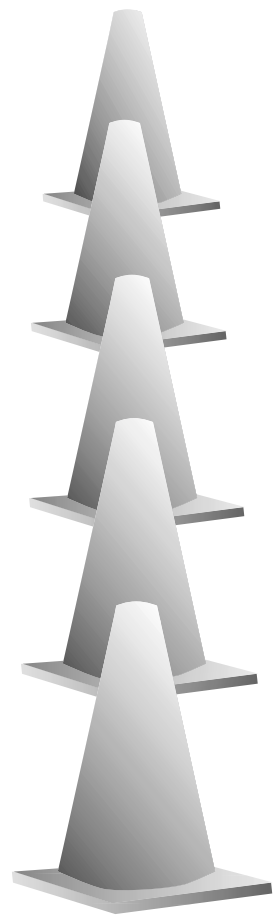
■ GAS STATION
AHEAD

Word Search

Words listed below are people or things used at Caltrans.



B O O T S L M G R
O H S K Y A D R E
R R N C M N S A H
E E G U A E K P P
N E I R P C P H A
R N S T Z L A I R
A I C E A O I C G
W G O N V S N A O
Y N N O X U T R T
L E E C R R E T O
R I S H P E R I H
A W O R K E R S P
E H A R D H A T S
O R A N G E B A G

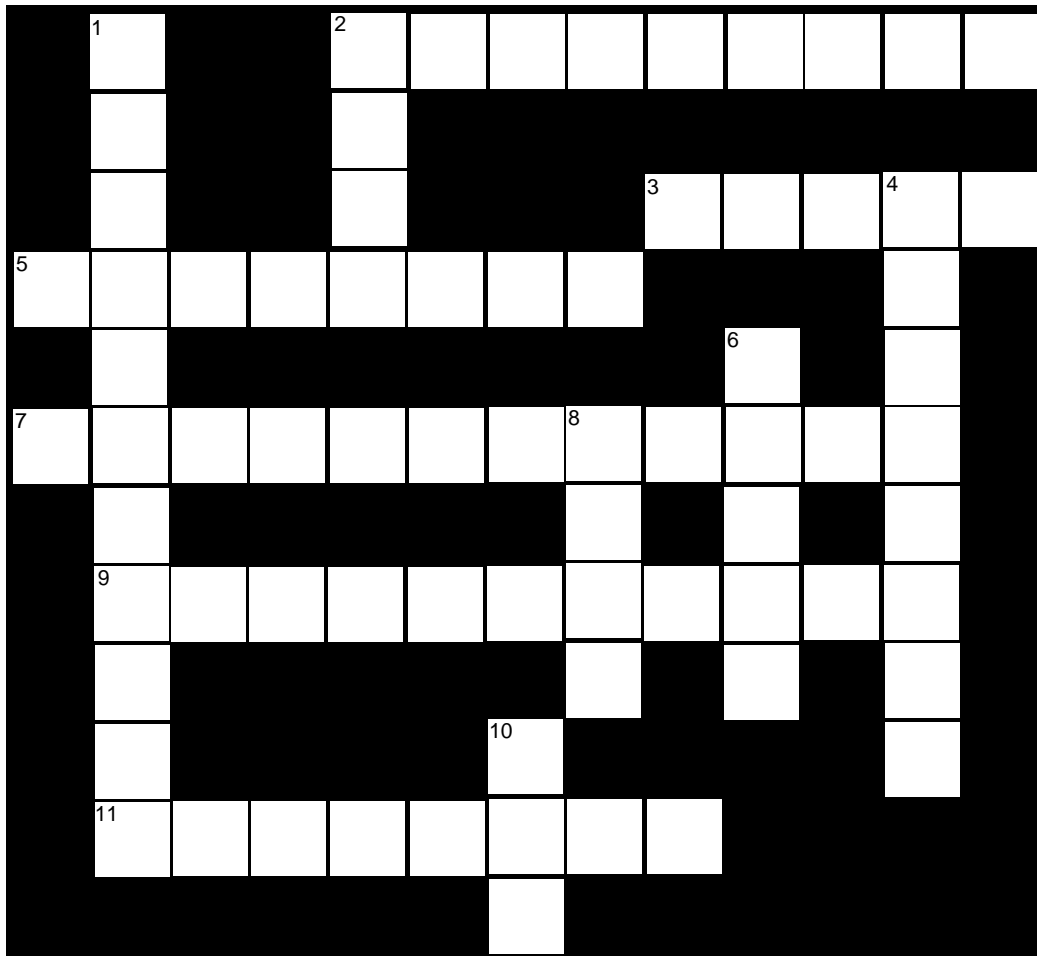


1. ENGINEER
2. LANE CLOSURE
3. CONE TRUCK
4. MAP
5. PAINTER

6. WORKER
7. CONES
8. SIGNS
9. ORANGE BAGS
10. HARD HATS

11. EARLY WARNER
12. GRAPHIC ARTIST
13. BOOTS
14. PLANNER
15. PHOTOGRAPHER

Caltrans Crossword



ACROSS

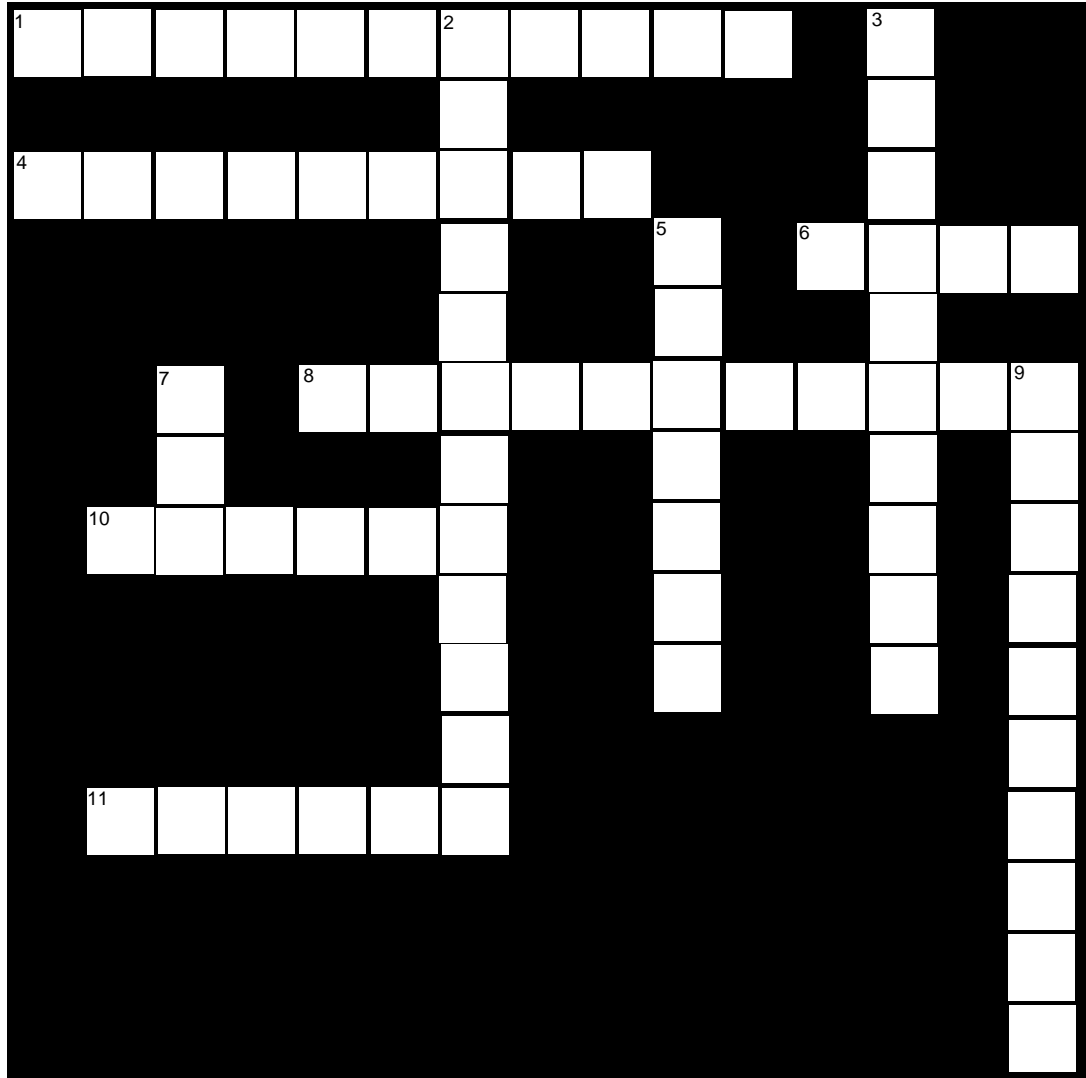
2. A one piece garment to protect your clothing
3. State flower
5. Major roads used for traveling
7. Work being done on the highways
9. The division of Caltrans that keeps our roadways clean and safe
11. Two words for the name of a vehicle that helps cars on the roadway

DOWN

1. Your surroundings
2. What a group of workers are called
4. Bridge workers that apply a protective covering to the bridge
6. Roadside directional guides
8. Orange road items used for lane closures
10. A vehicle used for public transportation

Answers are located on page 24.

Stormwater Pollution



ACROSS

1. Cars
4. Ingredients found in a science laboratory
6. Something that swims in our waterways
8. Manure and materials that help your plants grow
10. Some liquids that you use in your automobile
11. An ingredient that lubricates your vehicle

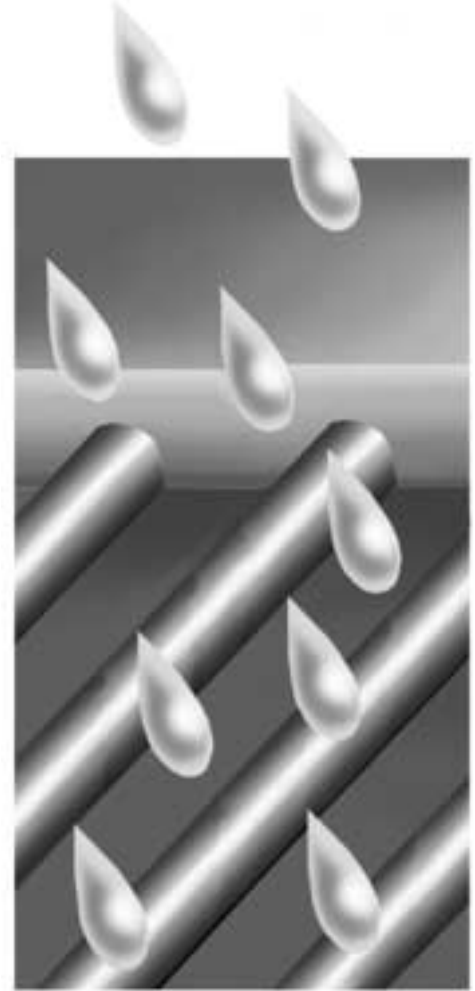
DOWN

2. Two words describing dust from a car part that helps you stop your car
3. Two words for our waterways ecosystem
5. Something bad we do to our environment
7. An ingredient that is necessary to make your car operate and mixes well with vinegar
9. The doorway that leads to our waterways that often times carries pollutants

Answers are located on page 24.

Stormwater in the Bay

Did you know the primary source of stormwater pollution is urban activity? Most people believe that the major sources of stormwater pollution are industries and factories. However, over 50% of stormwater pollution is caused by average Californians performing everyday activities.



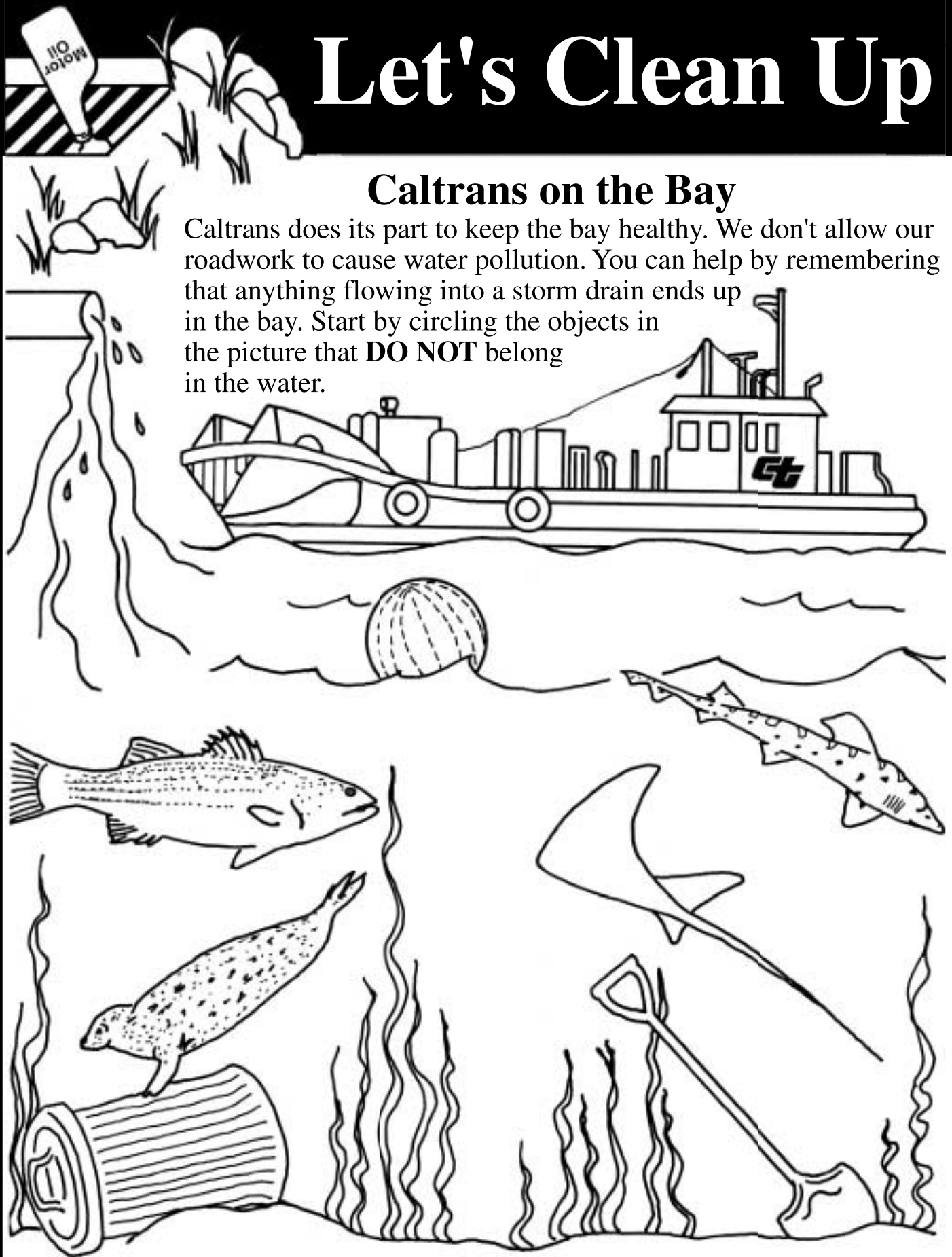
1. The major source of stormwater pollution are industries and factories? True or False
2. Urban activity is the primary source of stormwater pollution? True or False
3. Most stormwater pollution is caused by everyday activities? True or False

Answers are located on page 24.

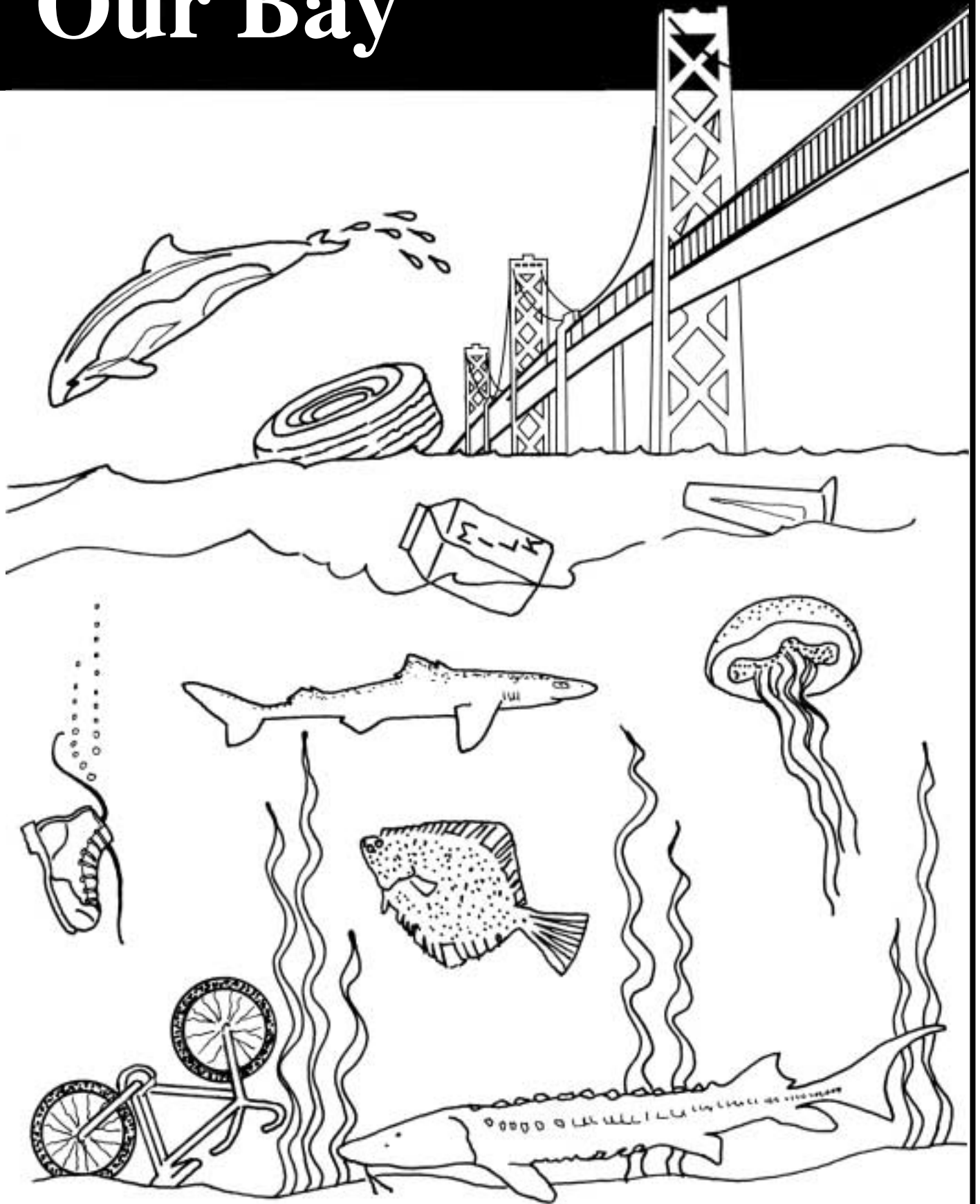
Let's Clean Up

Caltrans on the Bay

Caltrans does its part to keep the bay healthy. We don't allow our roadwork to cause water pollution. You can help by remembering that anything flowing into a storm drain ends up in the bay. Start by circling the objects in the picture that **DO NOT** belong in the water.

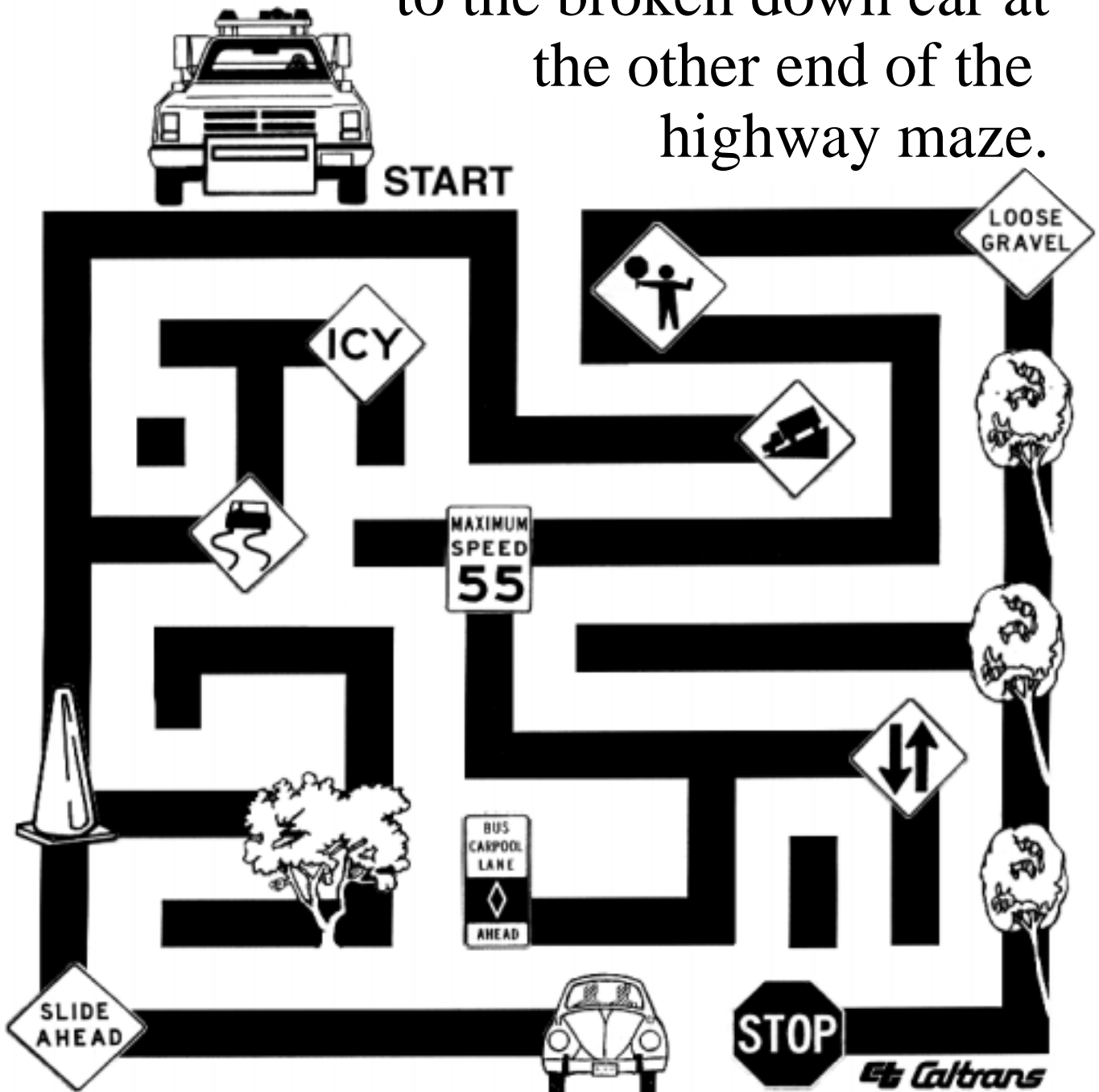


Our Bay

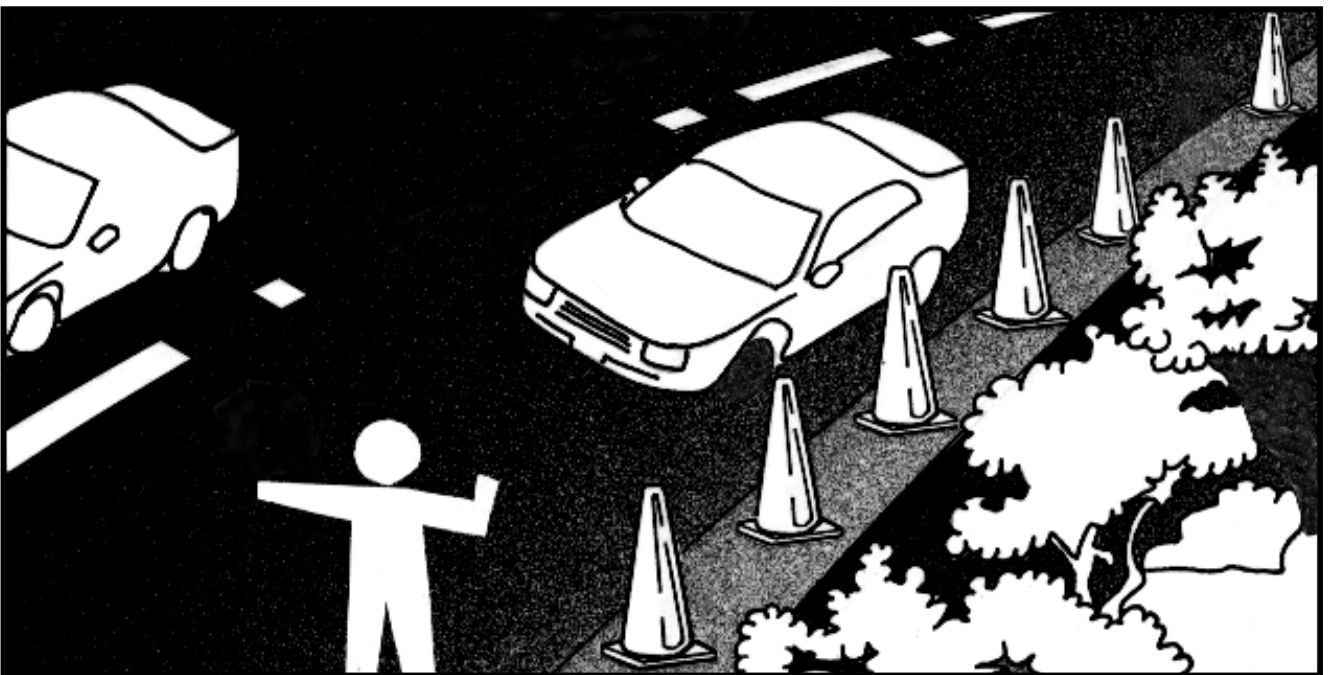
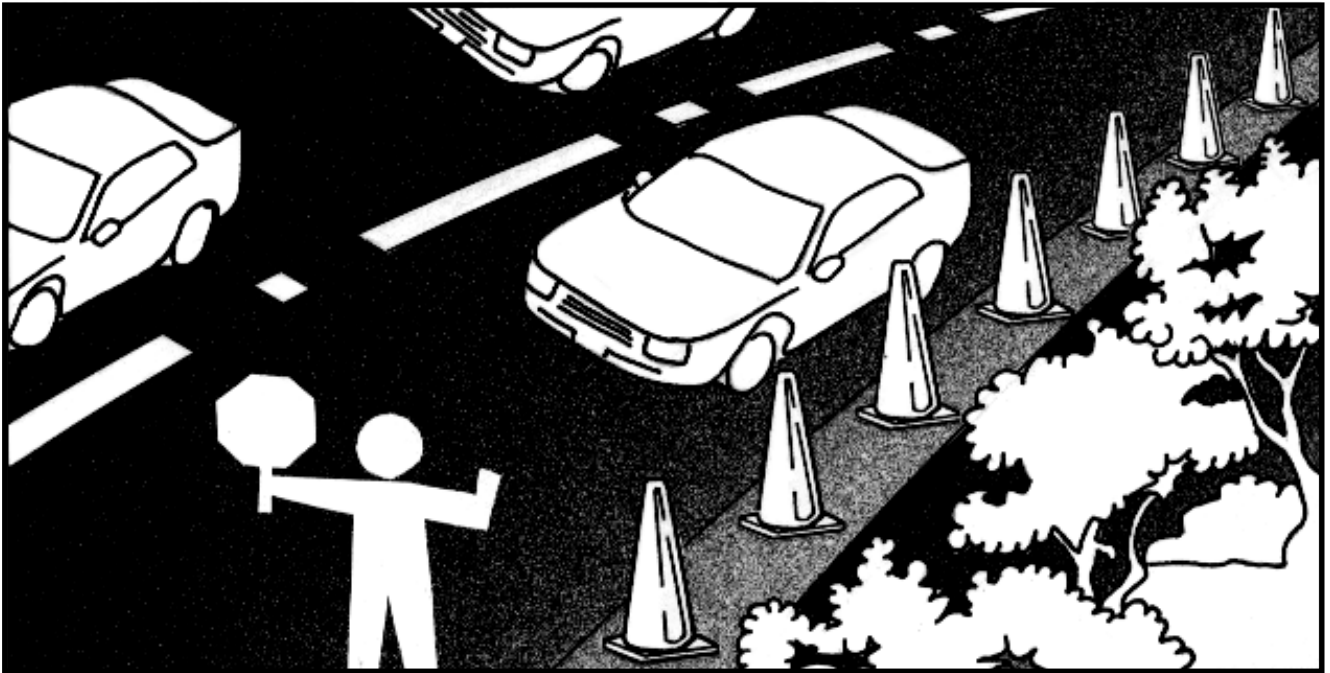


Highway Maze

Please help Tommy the tow-truck get to the broken down car at the other end of the highway maze.



What is Missing?

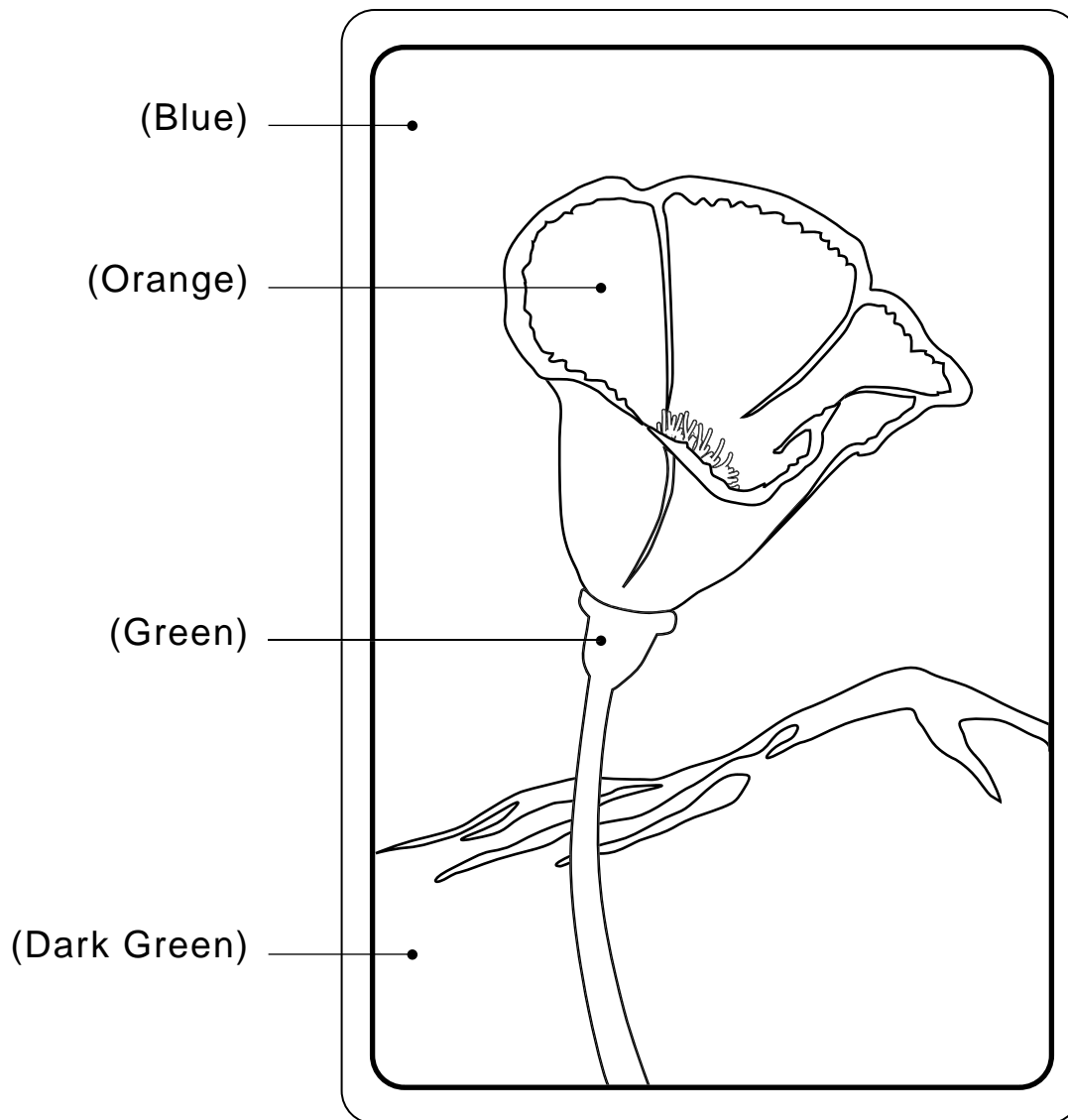


State Flower

California Poppy (*Eschscholzia californica*)

Did You Know?

On December 12, 1890, the California State Floral Society voted to select a State Flower. The three nominees were: *Eschscholzia californica*, the California poppy; *Romneya coulteri*, called giant poppy at the time, but now usually referred to as Matilija poppy; and *Calochortus* (no species indicated), the Mariposa lily. The California poppy won by a landslide; only three votes were cast for Calochortus, and none for Romneya. The California poppy had first been described 70 years earlier, and it already had 64 years of horticultural history.



Scenic Highway Sign

California Poppy

(*Eschscholzia californica*)

How do I grow California poppies?

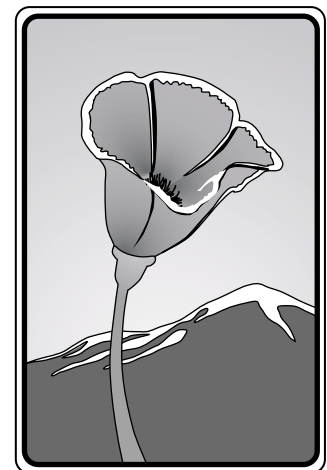
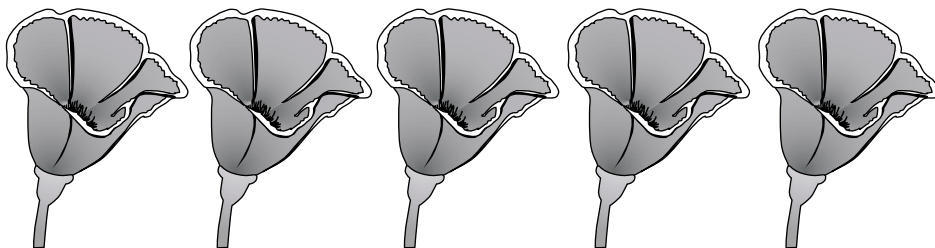
California poppies have been grown successfully in many parts of the world, from cool temperature regions to lowland tropics. In their native California and in other regions with mild winters, they should be planted in the fall. In areas with cold winters, they should be planted in early spring, about the same time you would plant radishes. Some important considerations:

- California poppies should be planted by direct seeding when possible.
- They transplant best when very young.
- They need good drainage.
- They do not perform well in small containers.
- They grow best in cool, sunny conditions.
- They respond poorly to heat.

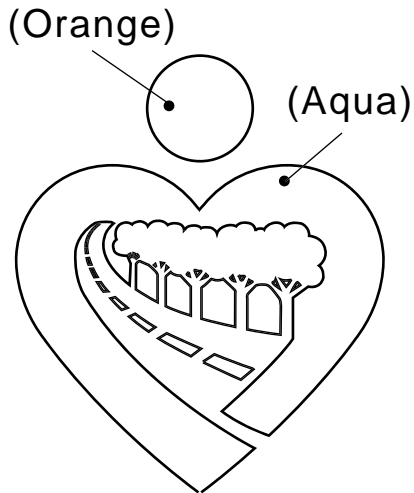
Questions

1. Have California poppies been grown successfully in many parts of the world? Yes No
2. In areas with mild winters, should poppies be planted in the spring? Yes No
3. Should California poppies be planted by direct seeding? Yes No
4. Do California poppies do well in small containers? Yes No
5. Do California poppies need good drainage? Yes No
6. Do California poppies respond well to heat? Yes No

Answers are located on page 24.



Adopt-A-Highway



The Adopt-A-Highway program is an educational and worthwhile program that provides companies, small businesses, private or public organizations the opportunity to contribute in cleaning up and beautifying California. You can cleanup and beautify a stretch of California highway with the cooperation of Caltrans and a minimum of red tape. This is a great way to promote civic responsibility, community pride and camaraderie within your organization.

**Color the Adopt-A-Highway logo and the sign.
Write your name in the box.**

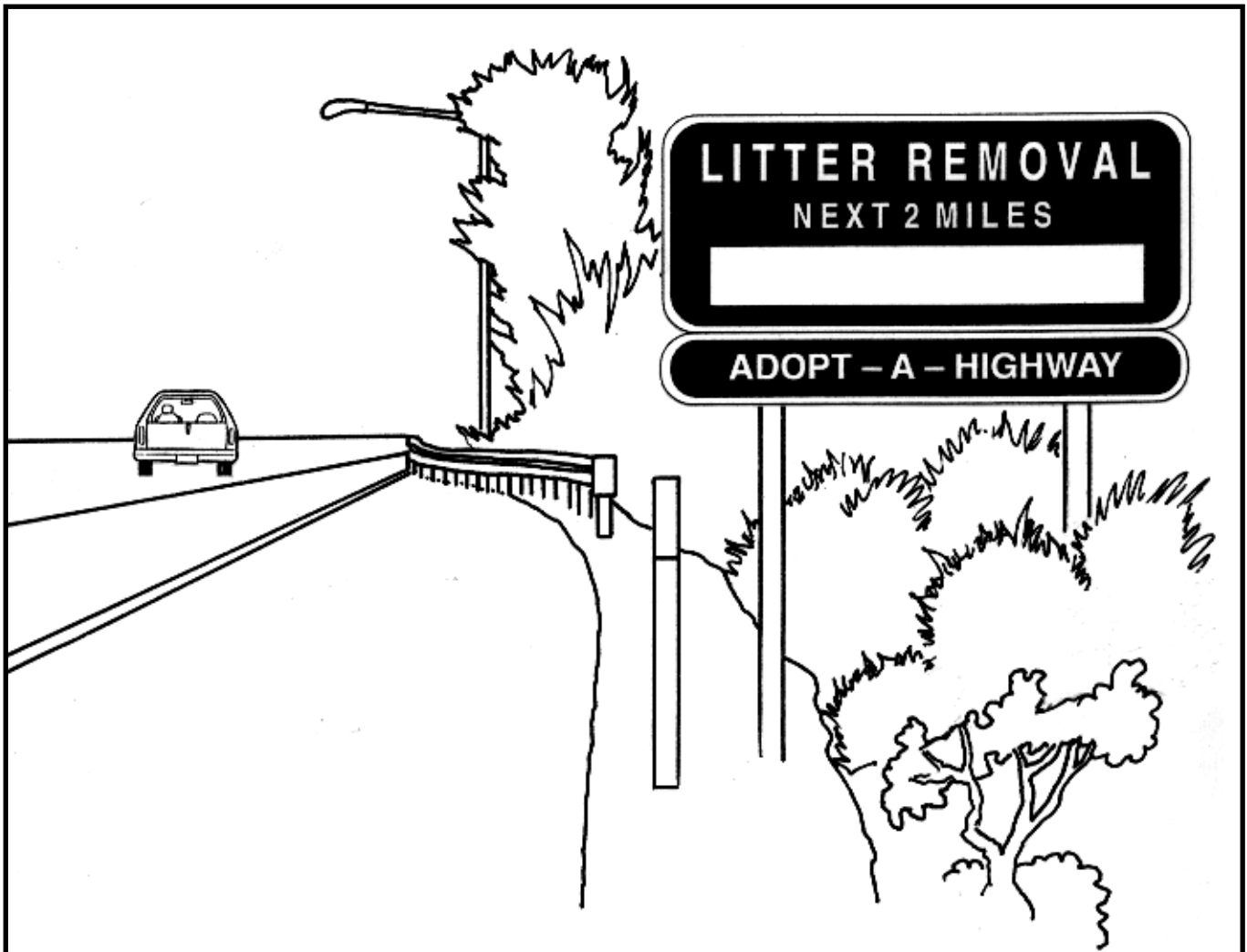


Adopt-A-Highway

Groups can participate by removing litter, planting and establishing tree seedlings, planting wildflowers, removing graffiti, or controlling weeds. Groups may do the work with their own people or hire a contractor to perform the duties for any of the possible adoptions.

Public recognition is one of the main focuses of the Adopt-A-Highway Program. Caltrans places recognition signs at the beginning of the adopted route in each direction. The signs are paid for and installed by Caltrans. When the group completes its commitment, it will be recognized with a Certificate of Appreciation.

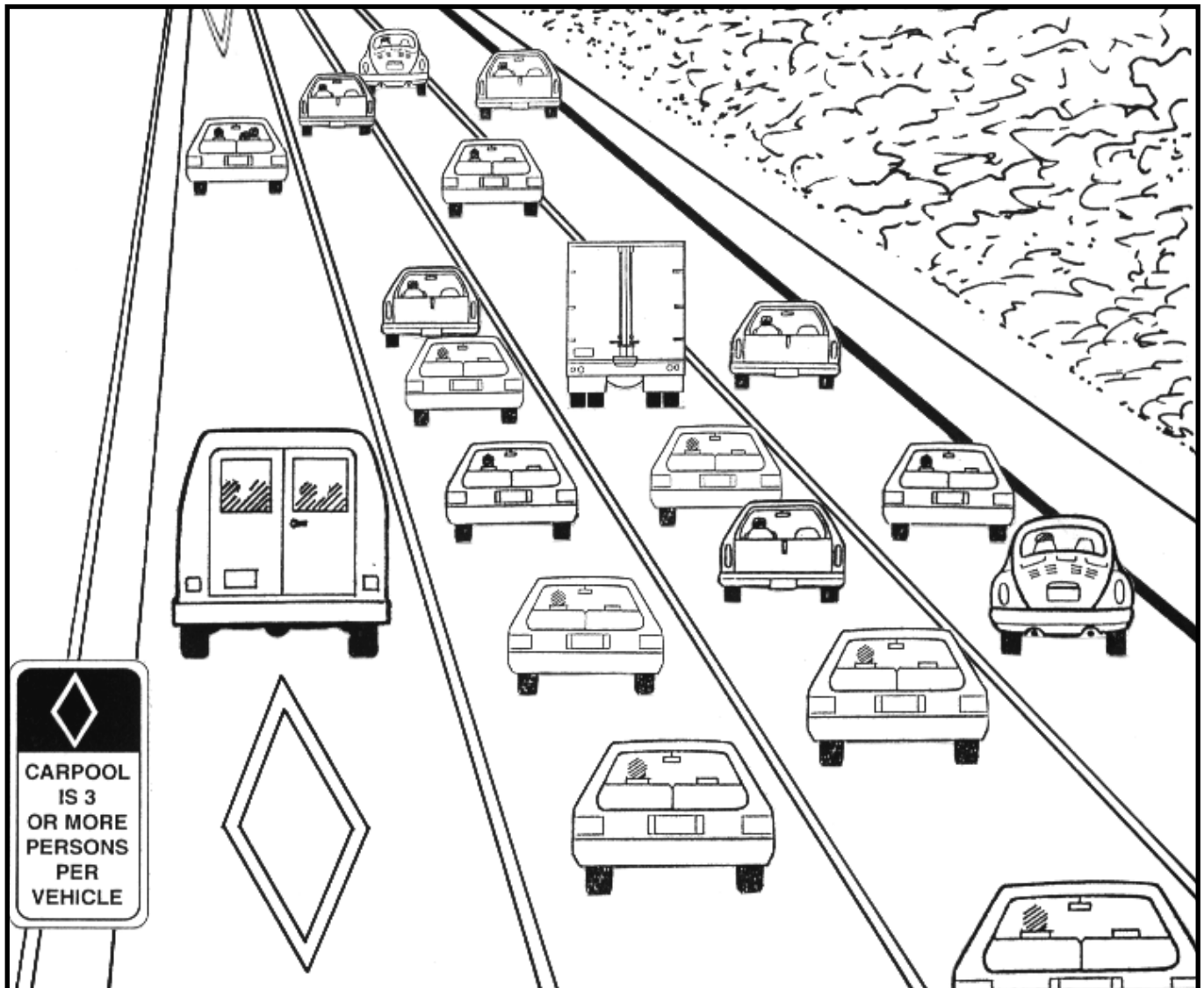
Color the picture below.



HOV Lanes

HOV Lanes - HOV stands for High Occupancy Vehicles, which are cars, vans or buses that carry more than one person at a time. Signs warn motorists what times HOV restrictions are enforced. HOV Lanes are designed to encourage people to carpool or travel together, which in turn lessens highway congestion and reduces air pollution.

Color the picture below.



Caltrans Word Match

ADOPT-A-HIGHWAY

A designated lane on the highway for vanpools, buses and carpools during specific times is called a _____ .

AXLES

Vehicles are required to pay a _____ to get across the San Francisco-Oakland Bay Bridge.

CARPOOL

Caltrans _____ are employees that would most likely help design or construct a highway or bridge.

ENGINEERS

A car that is not maintained will _____ our waterways.

HOV LANE

A Caltrans employee who might fix a pothole works in _____ .

LANDSCAPING

Strengthening a structure to guard against earthquakes is called _____ .

MAINTENANCE

A _____ not only helps in protecting the environment, but also allows you to share driving back and forth to work.

MEDIAN BARRIER

A Caltrans employee that applies a protective coating to the bridge is called a _____ .

PAINTER

Plant life that is maintained on the highway and freeway is called _____ .

POLLUTE

Bridge tolls are based on how many _____ a vehicle has.

RETROFITTING

_____ is a Caltrans program that allows outside groups to be responsible for landscaping portions of the highways.

TOLL

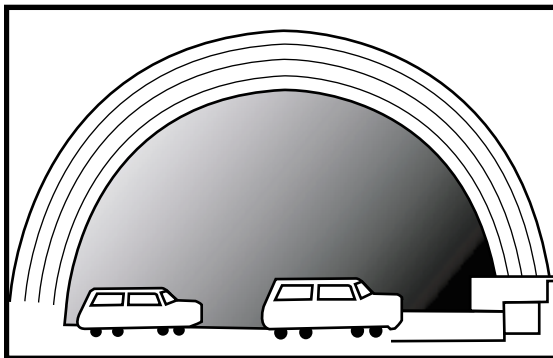
The middle section of the roadway that divides the directions, and is sometimes landscaped, is called a _____ .

Answers are located on page 24.

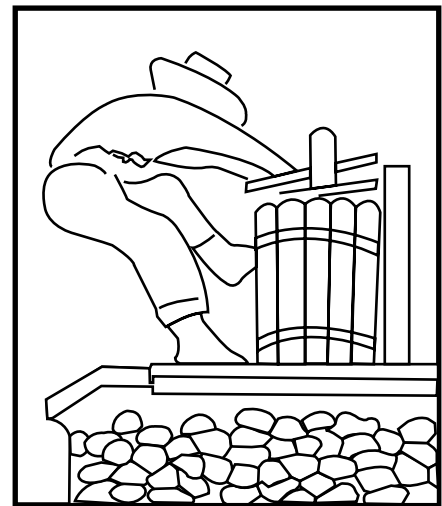
Transportation Art Program

Did you know that Caltrans has its very own art program? The Caltrans Transportation Art Program has been in existence for several decades and has had an "artful" hand at many different projects within our state. The art program not only includes such art as murals and sculptures, but also art in the form of tiles and orchards. Transportation art is defined as artwork created, constructed, or painted on spaces that are within the Caltrans right-of-way. You may have seen some of the art projects such as the sculpture of Father Junipero Serra on Highway 280 in the South Bay or the Rainbow Tunnel going to Marin on Highway 101. Maybe you have seen the giraffes and zebras painted in Oakland or the murals in downtown Los Angeles. The Caltrans Transportation Art Program allows local communities to visually express attitudes and feelings about their physical environment, ethnic values, and cultural heritages.

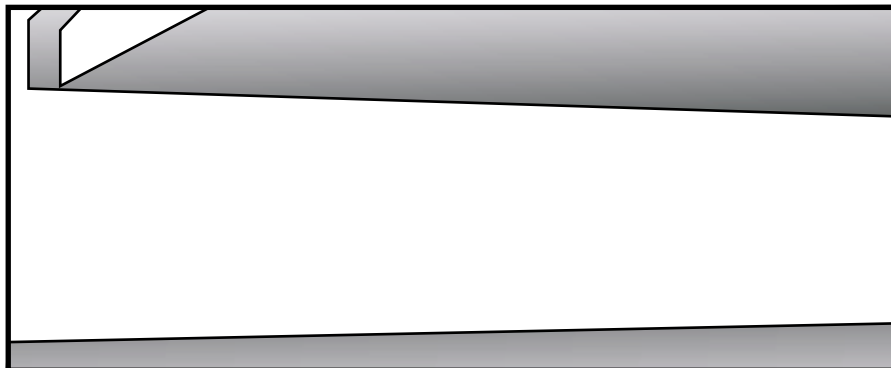
Following is a picture of a blank area under a freeway so you can draw your own Caltrans Transportation Art. There are also some actual pictures of art projects that are already in place and only need you to help color them in.



Route 101 at Waldo Tunnel



Route 29 Napa

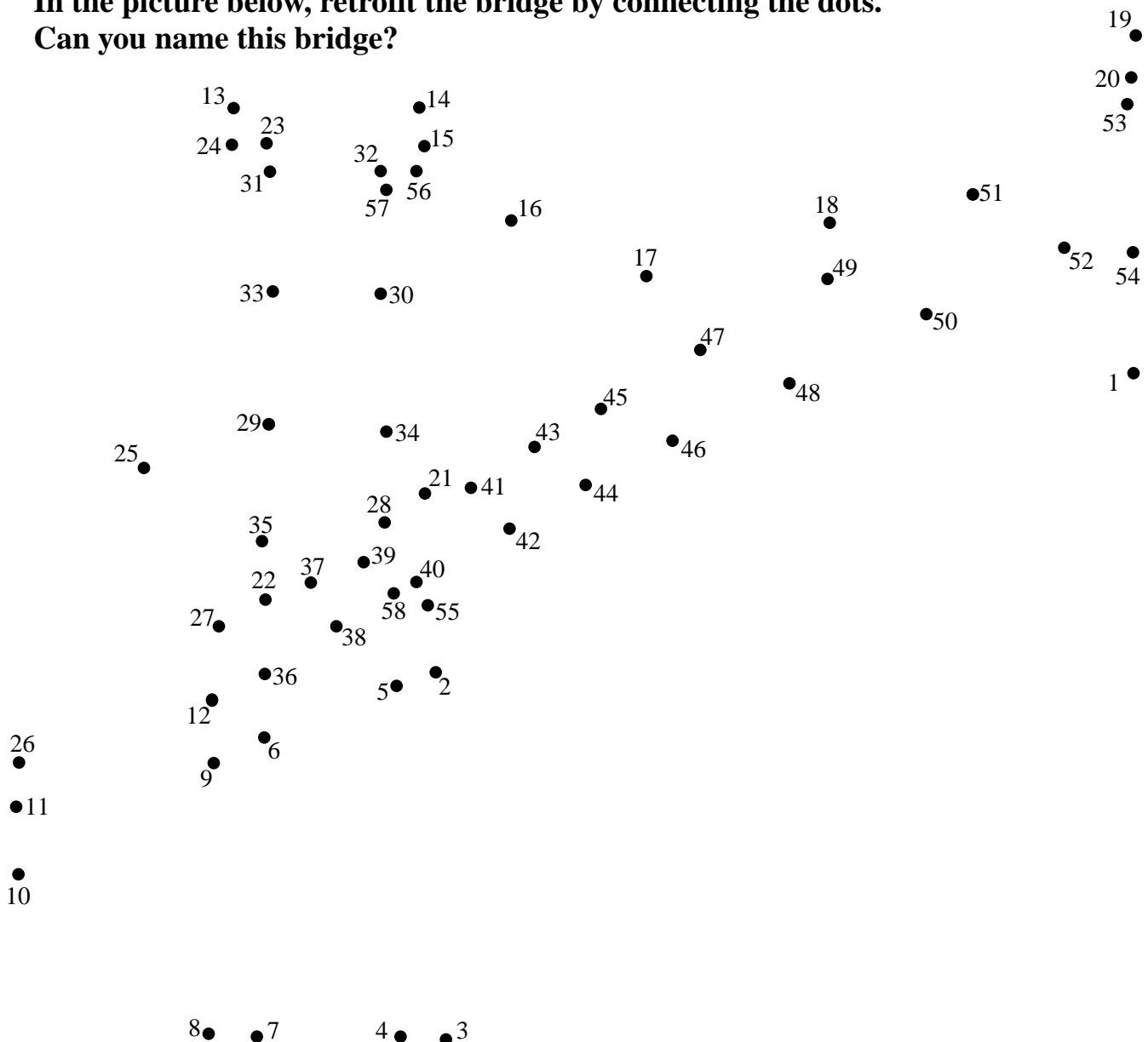


**Draw your own
Caltrans
Transportation
Art on the wall
under this
structure.**

Retrofitting

Retrofitting is construction that we do to make bridges and structures stronger and safer in the event of an earthquake. Some years ago we had a big earthquake, which was named the Loma Prieta earthquake. It caused considerable damage to many of our bridges and roadways in the San Francisco Bay Area. So, in order to prevent that from happening again and keep the traveling public safe, Caltrans has the responsibility to strengthen our bridges and structures, and that process is referred to as retrofitting.

**In the picture below, retrofit the bridge by connecting the dots.
Can you name this bridge?**



Anagrams

How many different words can you find in each of the words below?

CALTRANS

TRANSPORTATION

HIGHWAYS

STRUCTURES

BRIDGES

VEHICLES

ENVIRONMENT

Listen to the Signs

Jack Hammer asks all of us to read and obey traffic signs.



Answers

Scrambled Words

1. Bay Bridge
2. Dumbarton
3. Carquinez
4. San Mateo
5. Richmond
6. Benicia
7. Antioch

Construction Words

1. Engineer
2. Detour
3. Paving
4. Widening
5. Cement
6. Upgrade
7. Inspector
8. Closure
9. Bulldozer

Caltrans Crossword

Across:

2. Coveralls
3. Poppy
5. Highways
7. Construction
9. Maintenance
11. Tow Truck

Down:

1. Environment
2. Crew
4. Painters
6. Signs
8. Cone
10. Bus

Stormwater Pollution

Crossword

Across:

1. Automobiles
4. Chemicals
6. Fish
8. Fertilizers
10. Fluids
11. Grease

Down:

2. Brake Residue
3. Marine Life
5. Pollute
7. Oil
9. Stormdrain

Stormwater in the Bay

1. False
2. True
3. True

What is Missing?

1. Side window from car on left.
2. Sign man was holding.
3. Car at top of picture.
4. Middle center strip.
5. Wheel of car at right.
6. Second cone from the back.
7. Tree trunk at right.

California Poppy

1. Yes
2. Yes
3. Yes
4. No
5. Yes
6. No

Caltrans Word Match

HOV LANE
TOLL
ENGINEERS
POLLUTE
MAINTENANCE
RETROFITTING
CARPOOL
PAINTER
LANDSCAPING
AXLES
ADOPT-A-HIGHWAY
MEDIAN BARRIER



JULY 2003